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S6 CSA

52

## Program

from breezypythongui import EasyFrame

```
class BillingSystem(EasyFrame):
  def __init__(self):
    EasyFrame.__init__(self, title="BILLING SYSTEM")
    self.setBackground("#00FFFF")
 self.addLabel(text="PRODUCT NUMBER", row=0, column=0)
   self.prodNumField = self.addIntegerField(value=0, row=0, column=1)
 self.addLabel(text="COST", row=1, column=0)
self.costField = self.addFloatField(value=0.0, row=1, column=1)
 self.addLabel(text="QUANTITY", row=2, column=0)
self.quantityField = self.addIntegerField(value=0, row=2, column=1)
 self.addButton(text="ADD PRODUCT", row=3, column=1, command=self.add_product)
    self.addLabel(text="PRODUCT LIST", row=4, column=0, columnspan=2)
    self.productList = self.addTextArea("", row=5, column=0, rowspan=5, columnspan=2, width=50,
height=10)
   self.addButton(text="SUBMIT", row=10, column=0, columnspan=2, command=self.calculate_bill)
   self.products = []
  def add_product(self):
    prod_num = self.prodNumField.getNumber()
  cost = self.costField.getNumber()
 quantity = self.quantityField.getNumber()
 self.products.append((prod_num, cost, quantity))
 self.update_product_list()
self.prodNumField.setNumber(0)
self.costField.setNumber(0.0)
self.quantityField.setNumber(0)
```

```
def update_product_list(self):
    product_str = ""
    for product in self.products:
        product_str += f"PRODUCT NUMBER= {product[0]:5d} | COST= {product[1]:5f} | QUANTITY= {product[2]:5d}\n"
        self.productList.setText(product_str)

    def calculate_bill(self):
        total_cost = sum(cost * quantity for _, cost, quantity in self.products)
        self.messageBox(title="FINAL BILL", message=f"TOTAL BILL = ${total_cost:.2f}")

def main():
    BillingSystem().mainloop()

if __name__ == "__main__":
    main()
```

## Output



